



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Andre Jestin et al.

Title: CIRCOVIRUS SEQUENCES ASSOCIATED WITH PIGLET WEIGHT LOSS DISEASE (PWD)

Appl. No.: 10/718,266

Filing Date: November 21, 2003

Examiner: To Be Assigned

Art Unit: 1648

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR § 1.56

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the Examiner's attention the documents on the attached forms PTO/SB/08. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

This application is a continuation of U.S. Application No. 09/514,245 filed February 28, 2000, now U.S. Pat. No. 6,703,023, which application is a continuation in part of PCT Application No. PCT/FR98/02634, filed December 4, 1998.

A. Documents

Copies of the listed documents B1 to B88 are attached. The documents B1 was submitted in the parent case, U.S. Application No. 09/514,245, now U.S. Pat. No. 6,703,023, and copies of those documents are not submitted here.

Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

B. Non-English Language Documents

French Patent Application Publication No. 2 422 956 (11/09/1979) (B7): Attached with this filing is a Derwent Abstract of this document (B86). An English language counterpart to this application is U.S. Patent No. 5,605,800.

French Patent Application Publication No. 2 518 755 (06/24/1983) (B8): Attached with this filing is a Derwent Abstract of this document (B87). An English language counterpart to this application is U.S. Patent No. 5,988,825.

German Patent Application Publication No. 10044648 (3/23/2002) (B13): Attached with this filing is a Derwent Abstract of this document (B88). An English language counterpart to this application is U.S. Patent No. 6,573,081.

C. Conclusion

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicants determine that the cited documents are not "prior art" under United States law, then Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

The Examiner is invited to contact the undersigned if any questions may be resolved by a telephone conference.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

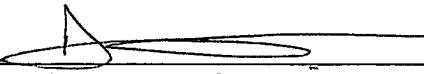
Respectfully submitted,

Date May 14, 2004

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By


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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

May 14, 2004

(Use as many sheets as necessary)

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of

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Complete if Known

Application Number	10/718,266
Filing Date	11/21/2003
First Named Inventor	André JESTIN
Group Art Unit	1648
Examiner Name	To Be Assigned
Attorney Docket Number	042049-0107

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
B1.	6,497,883			Michel et al.	12-24-2002	
B2.	6,517,843			Albert et al.	02-11-2003	
B3.	6,143,334			Gordon et al.	11-07-2000	
B4.	2002/0177216			Phillip et al.	11-28-2002	
B5.	2002/0106639			Wang et al.	08-08-2002	
B6.	2002/0055189			Bernhardt et al.	05-09-2002	

FOREIGN PATENT DOCUMENTS

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
B7.		FR 2 422 956	/	/	Institut Pasteur	11-09-1979		
B8.		FR 2 518 755	/	/	Institut Pasteur	06-24-1983		
B9.		WO 90/11092	/	/	Vical, Inc.	10-04-1990		
B10.		WO 94/27238	/	/	MDS Health Group Ltd.	11-24-1994		
B11.		WO 95/11307	/	/	Institut Pasteur	04-27-1995		
B12.		WO 00/77188	/	/	Merial	12-21-2000		
B13.		DE 10044648	/	/	Aventis Behring GmbH	03-21-2002		
B14.		WO 01/96377	/	/	Purdue Research Foundation	12-20-2001		
B15.		WO 02/102999	/	/	Univ. Melbourne	12-27-2002		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
B16.		Allan, G.M. et al., 1995, Vet. Microbiol., 44: 49-64.	
B17.		Barany, F., 1991, PNAS. USA, 88: 189-193.	
B18.		Liu et al., 1997, J. Gen. Virol., 78 (Pt 6), 1265-1270.	

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				Group Art Unit	1648
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	B19.	Buckholz, R.G., 1993, Yeast systems for the expression of heterologous gene products. Curr. Op. Biotechnology 4: 538-542.	
	B20.	Burg, J.L. et al., 1996, Mol. and Cell. Probes, 10: 257-271.	
	B21.	Chu, B.C.F. et al., 1986, NAR, 14: 5591-5603.	
	B22.	Chu, P.W.G. et al., 1993, Virus Research, 27: 161-171.	
	B23.	Clark, E.G., 1997, American Association of Swine Practitioners, 499-501.	
	B24.	Daft, B. et al., 1996, American Association of Veterinary Laboratory Diagnosticians, 32.	
	B25.	Derse, D. et al., 1995, J. Virol., 69(3): 1907-1912.	
	B26.	Duck, P. et al., 1990, Biotechniques, 9: 142-147.	
	B27.	Dulac, G.C. et al., 1989, Can. J. Vet. Res., 53: 431-433.	
	B28.	Edwards, C.P., and Aruffo, A., 1993, Current applications of COS cell based transient expression systems. Curr. Op. Biotechnology 4: 558-563.	
	B29.	Edwards, S. et al., 1994, Vet. Rec., 134: 680-681.	
	B30.	Erlich, H.A., 1989, In PCR Technology. Principles and Applications for DNA Amplification. New York: Stockton Press.	
	B31.	Felgner, et al., 1987, Proc. Natl. Acad. Sci., 84: 7413-7417.	
	B32.	Fontes, E.P.B. et al., 1994, J. Biol. Chem., Vol. 269, No. 11: 8459-8465.	

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Sheet	3	of	6	Group Art Unit	1648
				Examiner Name	To Be Assigned
				Attorney Docket Number	042049-0107

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	B33.	Fraley et al., 1980, J. Biol. Chem., 255: 10431-10435.	
	B34.	Guateli, J.C. et al., 1990, Proc. Nat'l Acad. Sci., USA, 87: 1874-1878.	
	B35.	Hackland, A.F. et al., 1994, Arch. Virol., 139: 1-22.	
	B36.	Hanson, S.F. et al., 1995, Virology, 211: 1-9.	
	B37.	Harding, J.C., 1997, American Association of Swine Practitioners, 503.	
	B38.	Harding, R.M. et al., 1993, Journal of General Virology, 74: 323-328.	
	B39.	Harding, J.C. and Clark, E.G., 1997, Swine Health and Production, Vol. 5, No. 5: 201-203.	
	B40.	Heyraud-Nitschke, F. et al., 1995, Nucleic Acids Research, Vol. 23, No. 6: 910-916.	
	B41.	Horner, G.W., 1991, Surveillance 18(5): 23.	
	B42.	Müller, 1974, in Methode der Organischen Chemie, E. Wunsch Ed., Volume 15-I and 15-II, Thieme, Stuttgart.	
	B43.	Huygen, K. et al., 1996, Nature Medicine, 2(8): 893-898.	
	B44.	Innis, M.A. et al., 1990, in PCR Protocols. A guide to Methods and Applications, San Diego, Academic Press.	
	B45.	Kaneda, et al., 1989, Science, 243: 375-378.	
	B46.	Kievitis, T. et al., 1991, J. Virol. Methods, 35: 273-286.	

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	B47.	Kohler, G. & Milstein, 1975, Nature, 256(5517): 495-497.	
	B48.	Kwoh, D.Y. et al., 1989, Proc. Nat'l Acad. Sci., USA, 86: 1173-1177.	
	B49.	Ladany, S. et al., 1989, J. Clin. Microbiol. 27: 2778-2783.	
	B50.	Lazarowitz, S.G. et al., 1989, The EMBO Journal, Vol. 8 No. 4: 1023-1032.	
	B51.	Luckow, V.A., 1993, Baculovirus systems for the expression of human gene products. Curr. Op. Biotechnol. 4: 564-572.	
	B52.	Matthews, J.A. et al., 1988, Anal. Biochem., 169: 1-25.	
	B53.	McNeilly, F. et al., 1996, Vet. Immunol. Immunopathol., 49: 295-306.	
	B54.	Marglin, A. and Merrifield, R.B., 1966, J. Am. Chem. Soc., 88(21): 5051-5052.	
	B55.	Midoux, 1993, Nucleic Acids Research, 21: 871-878.	
	B56.	Miele, E.A. et al., 1983, J. Mol. Biol., 171: 281-295.	
	B57.	Virus Taxonomy, Murphy, F.A. et al., Ed. 1995, Sixth Report of the International Committee on Taxonomy of Viruses, Springer-Verlag Wien New York.	
	B58.	Nayar, G.P. et al., 1997, Can. Vet. J. 38(6): 385-386.	
	B59.	Olins, P.O., and Lee, S.C., 1993, Curr. Op. Biotechnol. 4: 520-525.	
	B60.	Pagano et al., 1967, J. Virol., 1: 891-897.	
	B61.	Rolfs, A. et al., "Usage of Polymerase Chain Reaction in Genetic and Infectious Disease" in PCR Topics, 1991, Springer-Verlag, Berlin.	

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	B62.	Sambrook, J. et al., 1989, Molecular cloning: A Laboratory Manual. Cold Spring Harbor, NY: Cold Spring Harbor Laboratory Press.	
	B63.	Sanchez-Pescador, R., 1988, J. Clin. Microbiol., 26(10): 1934-1938.	
	B64.	Kessler, C., "Overview of Amplification on Systems" in Non-radioactive Labeling and Detection of Biomolecules, 1992, Springer Verlag, Berlin, New-York: 197-205.	
	B65.	Shiver, J.W., "Immune Responses to HIV gp120 Elicited by DNA Vaccination," in Vaccines, 1995, eds Chanock, et al., pp. 95-98, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York.	
	B66.	Tascon, R.E. et al., 1996, Nature Medicine, 2(8): 888-892.	
	B67.	Tischer, I. et al., 1982, Nature, 295: 64-66.	
	B68.	Tischer, I. et al., 1986, Arch. Virol., 91: 271-276.	
	B69.	Tischer, I. and Bohk, H.J., 1988, Zentralbl Bakteriol Mikrobiol Hyg [A] 270: 280-287.	
	B70.	Urdea, M.S., 1988, Nucleic Acids Research, 11: 4937-4957.	
	B71.	Walker, G.T. et al., 1992, Nucleic Acids Res. 20: 1691-1696.	
	B72.	Walker, G.T. et al., 1992, Proc. Nat'l Acad. Sci., USA, 89: 392-396.	
	B73.	White, B.A. et al. Eds, "PCR Cloning Protocol" in Methods in Molecular Biology, 67, Humana Press, Towota, 1997.	
	B74.	Zhao, T.M. et al., 1996, Proc. Natl. Acad. Sci., USA 93(13): 6653-6648.	
	B75.	Pearson, William R. et al., 1988, "Improved Tools for Biological Sequence Comparison", Proc. Nat'l Acad. Sci., USA, 85: 2444-2448	

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	B76.	Kasahara, Noriyuki et al., 1994, "Tissue-Specific Targeting of Retroviral Vectors Through Ligan-Receptor Interactions", Science, 266: 1373-1376
	B77.	Young, John A. T. et al., "Efficient Incorporation of Human CD4 Protein into Avian Leukosis Virus Particles", Reports, 1421-1423
	B78.	Chu, Te-hua Terina et al., 1997, "Toward Highly Efficient Cell-Type-Specific Gene Transfer with Retroviral Vectors Displaying Single-Chain Antibodies", J. Virol., 71(1): 720-725
	B79.	Smith, Temple F. et al., 1981, "Comparison of Biosequences", Advances in Applied Mathematics, 2: 482-489
	B80.	Valsesia-Whittmann, Sandrine et al., 1996, "Improvement of Retroviral Retargeting by Using Amino Acid Spacers between an Additional Binding Domain and the N Terminus of Moloney Murine Leukemia Virus SU", J. Virol., 70(3): 2059-2064
	B81.	Neddeleman, Saul B. et al., 1970, "A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins", J. Mol. Biol., 48(3): 443-453
	B82.	Cosset, Francois-Loic et al., 1995, "Retroviral Retargeting by Envelopes Expressing an N-Terminal Binding Domain", J. Virol., 69:6314-6322
	B83.	Blanchard et al., 2003, "An ORF2 Protein-Based ELISA for Porcine Circovirus Type 2 Antibodies in Post-Weaning Multisystemic Wasting Syndrome", Veterinary Microbiology, 94: 183-184
	B84.	Rose, N. et al., 2002, "Risk Factors for Porcine Post-Weaning Multisystemic Wasting Syndrome (PMWS) in 149 French Farrow-to-Finish Herds", Preventive Veterinary Microbiology, 61: 209-225
	B85.	Blanchard et al., 2003, "Protection of Swine Against Post-Weaning Multisystemic Wasting Syndrome (PMWS) by Porcine Circovirus Type 2 (PCV2) Proteins", Vaccine 21: 4565-4575
	B86.	Derwent Abstract of French Patent Appl. No. 2422956
	B87.	Derwent Abstract of French Patent Appl. No. 2518755
	B88.	Derwent Abstract of German Patent Appl. No. 10044648

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